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Present-Day State of the Problem of Elementary
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BOUNDED SOLIDS. [1962] 33p. 13 refs.
Order from SLA \$3.60 62-20333

Trans. of Acustica (Switzerland) 1959, v. 9,
p. 275-288.

DESCRIPTORS: *Sound transmission, Mechanical
waves, Propagation, *Wave transmission, Sheets,
Vibration, Velocity, Damping, Energy, Solids, Shear
stresses, Liquids, Equations.

The boundary conditions for the basic elastic equa-
tions describing the vibrations of a bounded solid
cannot be satisfied by assuming periodic waves only.
Waves with complex and real propagation constants are
also required. After consideration of solved and
(Physics--Acoustics, TT, v. 10, no. 1) (over)

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I. Tamm, K.
II. Weiss, O.

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WAVE PROPAGATION IN INFINITELY EXTENDED
DISCS AND IN DISC STRIPS. [1962] 25p. 4 refs.
Order from SLA \$2.60 62-14437

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DESCRIPTORS: *Mechanical waves, *Wave transmission,
Distortion, Reflection, Attenuation, Velocity, Disks.

An analysis shows that the same wave types occur in
disks as in the case of secondary waves with plane
distortion field. In disks the dilatational wave that is
without rotation in xyz is replaced by the extensional
plate wave, free of rotation only in xy, which formally
has the same properties in disks as the dilatational
wave in an infinite medium. As a secondary wave, the
extensional plate wave is of course a combination of a
shear wave and a dilatational wave. (Author)

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Extremely High Pressures, by Yu. N. Ryabinin, A. M.
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N. N. Sobolev, A. M. Markevich, I. I. Tamm, 20 pp.

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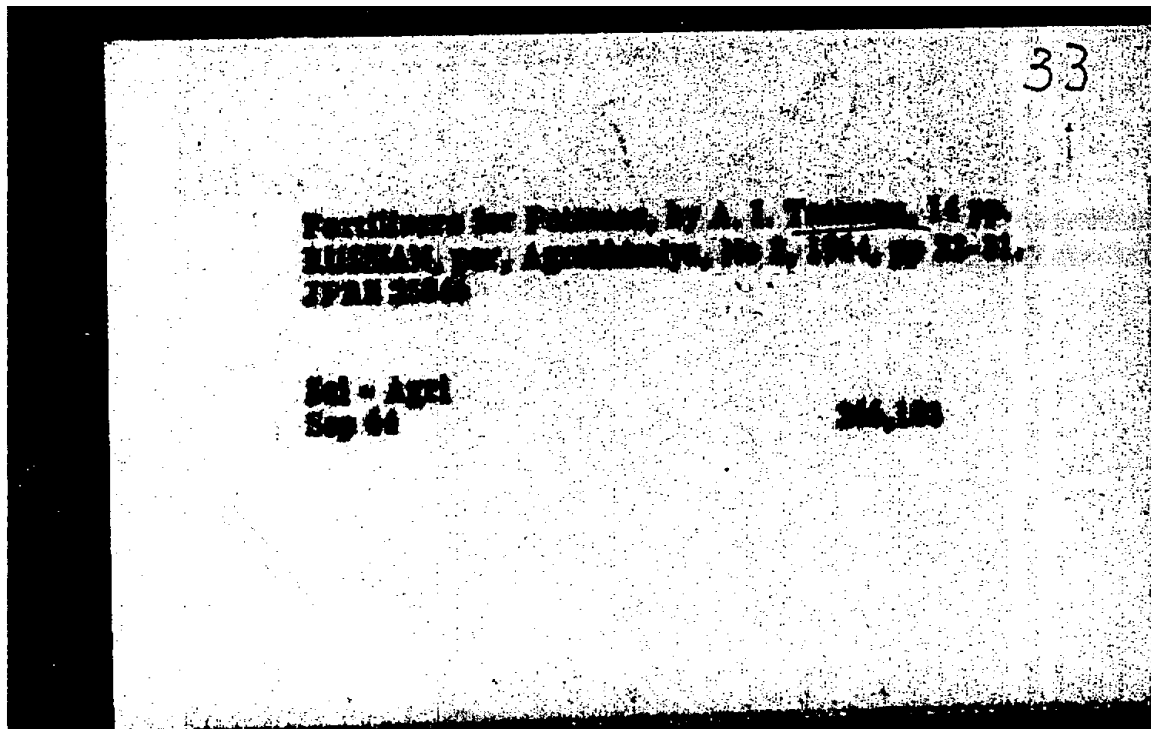
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